API Endpoints

**1. Upload CSV**

Endpoint: POST /upload/csv

Description: This endpoint allows users to upload CSV files for processing.

Functionality:

* Receives a CSV file for data processing.
* Validates the file's format and structure.
* Generates the desired output based on the provided sample.

**2. Data Integration**

Endpoint: POST /data/integrate

Description: This endpoint processes data from the previously uploaded CSV file and performs database operations based on specified actions there is some process which may not handle exceptions properly may cause exceptions/errors during processing.

**Functionality:**

* Accepts processed data as input.
* Applies security measures to protect sensitive data (work in progress).
* Executes database operations to integrate data according to actions.

**Folder Structure:**

The application follows a specific folder structure to organize its components effectively. Here's an overview of the key directories:

* entities: Contains Java classes that represent database entities.
* controller: Includes classes responsible for handling incoming HTTP requests.
* models: Houses classes for mapping JSON data according to configuration and request samples.
* repository: Provides JPA repositories for performing database operations.
* services: Contains business logic for data processing.
* util: Includes utility classes used throughout the application.
* resources: Contains configuration files, including dynamic\_config for applying configuration settings.

**Project Status:**

While the majority of parsing and validation logic is implemented in the CSV parsing section using configuration, there is some remaining work to be completed in the Data Integration API:

* Some modification of database operations for data integration.
* Enhancement of data processing and handling processes (from some actions).
* Application of additional security measures for data protection.